

Float level switches manual

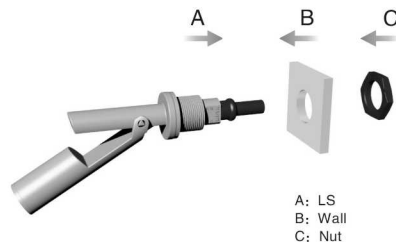
English



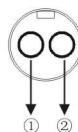
Features

LS series is featured for concise structure, delicate design, durable operations, and perfect function. They are extensively installed in the fuel tanks, oil-pressure equipments, chemical and cooling vessels, and etc. Furthermore, they are mostly used to sense substance such as water, oil, and chemicals. There are three different materials of LS series available now for varied needs from customers.

Mounting

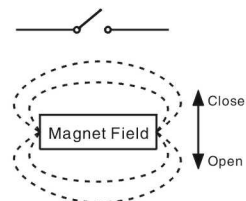


Hookup



① Red wire ····· Positive pole
② Blue wire ····· Negative pole

Operating principle

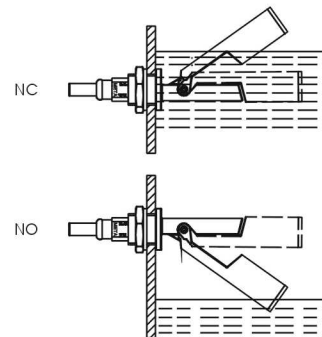


Connection

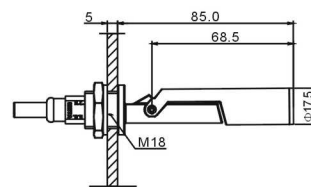
LS series is outputted by magnet reed, and the user can choose the status of NC or NO by the way of mounting. It can connect to the control system such as PLC, Relay, and etc.

Precision : ±3mm under water

Repetition : ±1mm under water



Dimension



Order number	LS0001	LS0002	LS0003
Type	Standard	High temperature	Strong acid / alkali
Sensing medium	Liquid		
Electrical design	DC / AC		
Output	NO / NC		
Operating voltage	Max. 240V AC/200V DC		
Current rating	0.5A (240V AC/DC)		
Socket	M18 Thread		
Capacity	70W		
Sensing degree	± 30°		
Storage humidity	20%~70%		
Operating humidity	20%~70%		
Operating temperature	-20℃~80℃	-20℃~120℃	-20℃~100℃
Ambient temperature	-20℃~80℃	-20℃~120℃	-20℃~100℃
Ambient pressure	10 bar		
Contact resistance	80 Ω		
Housing material	PBT+30%GF	PA66+30%GF	PTFE+30%GF
Connection	1M PVC Cable	1M PUR Cable	1M PUR Cable
Protection classification	IP68		
Certification	CE, RoHS		

English



Feature

Steel type of LS1000 series is featured for delicate design, durable operation, and long lifetime. They are extensively installed in the fuel tank, oil-pressure equipments, chemical and cooling vessels, and etc. When the level goes up to high position or down to the low position, the controller operates the switch and output warning signal to control the switching of a pump or of a valve.

Mounting

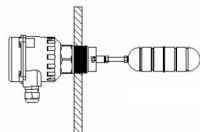


Fig.1 Standard mounting

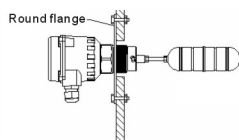


Fig.2 Mounting with flange

Connection

The type of output, NO or NC, is defined by the way of mounting. The contact of this product can connect to the other control units.

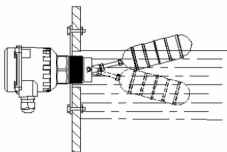


Fig.3 NO

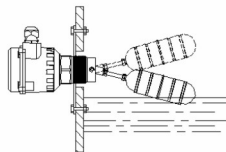
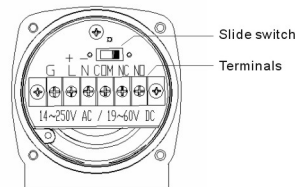


Fig.4 NC

Terminal mounting



Terminal	Sign	Description
1	GND	Connect the ground wire to the housing
2	L+	DC: 19 ~ 60V, AC: 14 ~ 250V Power input: DC 19 ~ 60V, AC 14 ~ 250V. Connect terminal 2 to power "+" while inputting the DC.
3	N-	
4	COM	Common Terminal
5	NC	When this product is mounted on the wall of the tank with the indicator under, it is the status of NO output. Then choose type of indicator operation between continuous bright or continuous dim via slide switch. (Fig.3)
6	NO	When this product is mounted on the wall of the tank with the indicator upper, it is the status of NC output. Then choose type of indicator operation between continuous bright or continuous dim via slide switch. (Fig.4)

Technical Date

	LS1001	LS1002
Housing material	S304 - Weak acid / alkali	S316 - Hygienic
Operating voltage	19V ~ 60VDC, 14V ~ 250VAC	
Output	Digital output NO / NC	
Switch rating	6 (2) A/250VAC	
Current rating	3 (1) A/250VAC	
Power consumption	0.025W	
Short circuit	No	
Overload	No	
Sebsing degree	± 15°	
Action delay	50ms	
Detected medium	Liquid	
Medium density	≥0.5g/cm ³	
Mounting	Flange DN40 / Thread G1 1/2"	
Operating pressure	50kg/cm ²	
Operating temperature	-20 ~ 200 (°C)	
Storage humidity	20 ~ 70 (%)	
Operating humidity	20 ~ 70 (%)	
Protection rating	IP67	
Certification	CE RoHS	